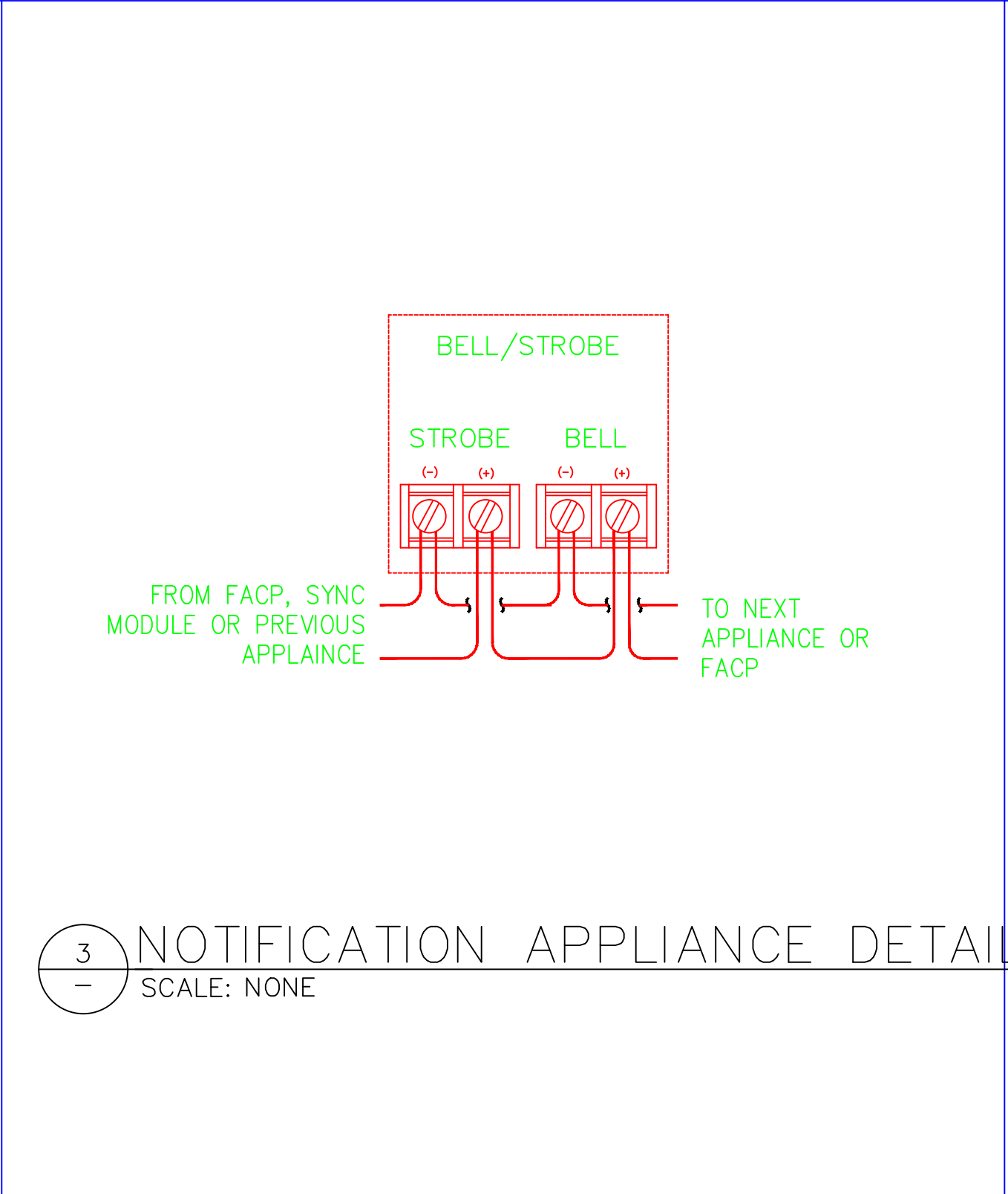
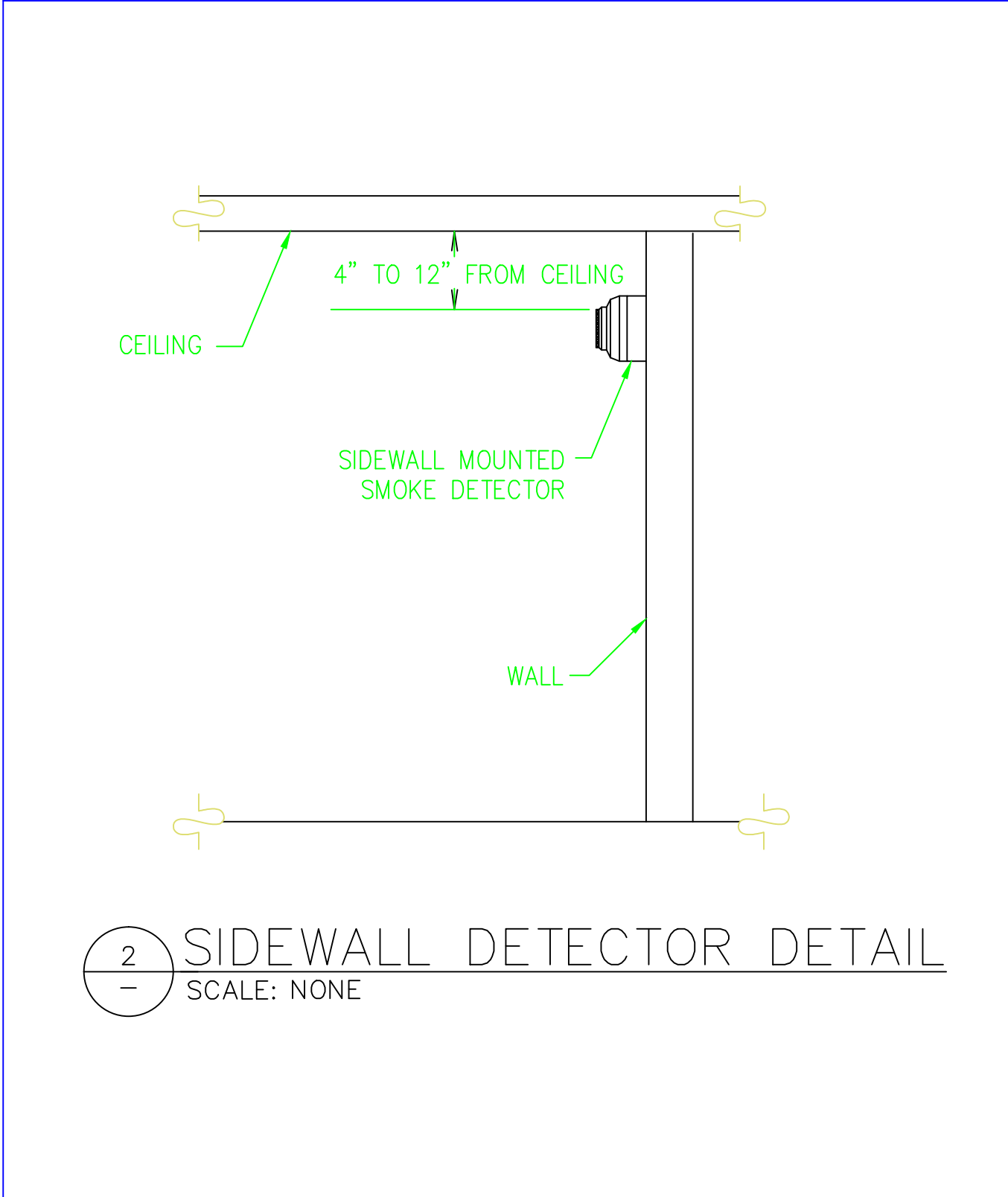
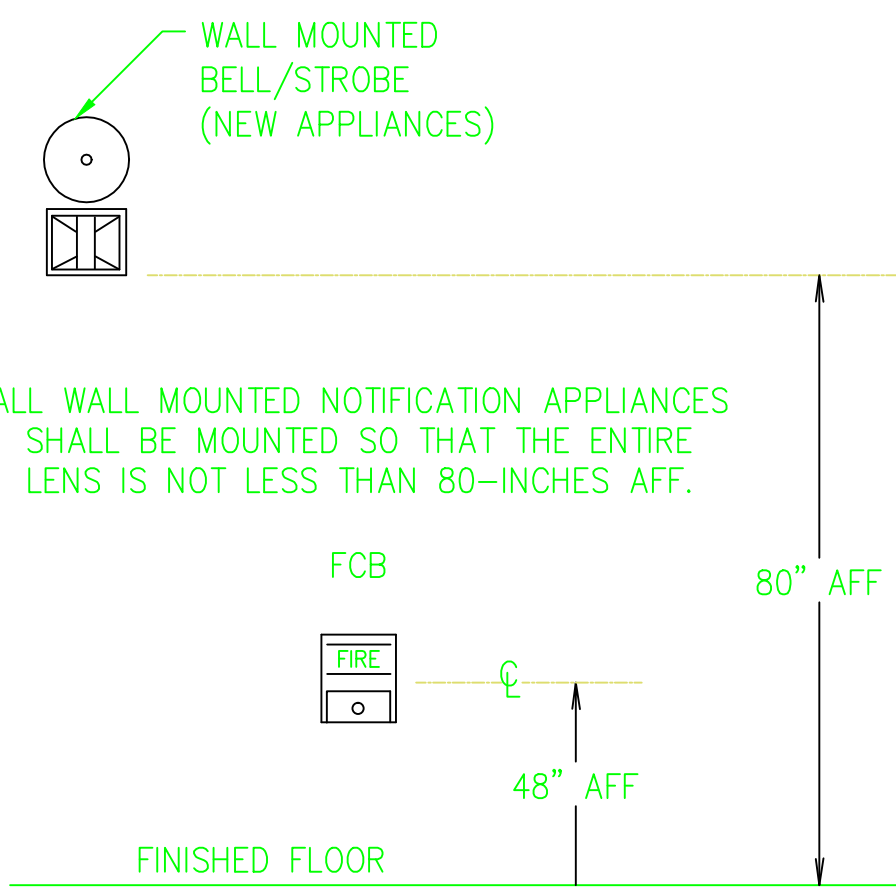


GENERAL NOTES

- 1) IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE DETAILED DESIGN, FABRICATION, PROCUREMENT, AND INSTALLATION OF THE COMPLETE FIRE PROTECTION SYSTEMS ADDITIONS AND MODIFICATIONS AS INDICATED ON THE CONTRACT DRAWINGS, INCLUDING:  
  
ALL PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS NECESSARY FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS INCLUDING THE INSTALLATION OF APPROVED FIRESTOP ASSEMBLIES NECESSARY TO MAINTAIN THE DESIGNED FIRE RESISTANCE RATING OF THE WALL, CEILING, OR FLOOR ASSEMBLY.  
  
CONNECTIONS TO THE EXISTING FIRE ALARM SYSTEM AS INDICATED.  
  
SYSTEMS AND DEVICE TESTING.  
  
ALL NECESSARY PERMITS.
- 2) THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND IMPLEMENTING ALL SAFETY PROGRAMS AND PROCEDURES FOR THIS PROJECT AND SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- 3) THE CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY. THE SUBCONTRACTOR SHALL DETERMINE THE ACTUAL MEASUREMENTS AND MAKE ANY AND ALL SUCH LENGTH AND OFFSET ADJUSTMENTS AS MAY BE NECESSARY TO COMPLETE THE INSTALLATION AT NO CHANGE IN THE CONTRACT PRICE. THE DRAWINGS ARE NOT INTENDED TO RELIEVE THE SUBCONTRACTOR OF ANY RESPONSIBILITY FOR AVOIDING CONFLICTS OR OBSTRUCTIONS, OR FOR INSTALLING THE NUMBER OF SPRINKLERS AND SUPPLY PIPING AS REQUIRED TO PROVIDE COMPLETE PROTECTION OF THE DESIGNATED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE REFERENCED STANDARDS AND THESE SPECIFICATIONS. WRITTEN APPROVAL SHALL BE OBTAINED FROM THE UNIVERSITY'S REPRESENTATIVE PRIOR TO MAKING ANY MAJOR DEVIATIONS FROM THE ARRANGEMENT AND LAYOUT SHOWN ON THE DRAWINGS.
- 4) ALL EQUIPMENT SHALL BE NEW, AND APPROVED AND/OR LISTED BY UNDERWRITERS' LABORATORIES OR FACTORY MUTUAL.
- 5) SYSTEM, EQUIPMENT, INSTALLATION, AND MATERIALS AND METHODS USED SHALL COMPLY WITH THE FOLLOWING:  
  
THE REQUIREMENTS OF THE LAWRENCE BERKELEY NATIONAL LABORATORY.  
  
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 NATIONAL FIRE ALARM CODE 2007 EDITION.  
  
CALIFORNIA BUILDING AND FIRE CODES.  
  
MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES.
- 6) ALL NEW CONDUIT SHALL BE MINIMUM 3/4 INCH DIAMETER.

LEGEND

- NEW CEILING MOUNTED SIEMENS PE-3 SMOKE DETECTOR
- NEW SIDEWALL MOUNTED SIEMENS PE-3 SMOKE DETECTOR
- NEW SIEMENS DUCT SMOKE DETECTOR
- NEW PRESSURE OPERATED WATERFLOW SWITCH
- NEW NEW LOW AIR PRESSURE SWITCH
- NEW VALVE POSITION SUPERVISORY SWITCH
- NEW PREACTION FIRE SPRINKLER SOLENOID
- NEW BELL/STROBE, CANDELLA AS NOTED
- NEW 3/4 INCH CONDUIT, CONTAINING IDENTIFIED CIRCUITS



SEQUENCE OF OPERATIONS

SYSTEM EVENT	RESPONSE						
	ANNUNCIATE EVENT AT FACP	OPERATE PREACTION FIRE SPRINKLERS	OPERATE NOTIFICATION APPLIANCES	SHUTDOWN AHU-034	SHUTDOWN AHU-035	FIRE SIGNAL TO LBNL RECEIVER	SUPERVISORY SIGNAL TO LBNL RECEIVER
SMOKE DETECTOR ALARM	•	•	•	•			
AHU-035 DUCT SMOKE DETECTOR	•	•		•			
LOW AIR PRESSURE ALARM	•				•		
SMOKE DETECTOR & LOW AIR PRESSURE ALARM	•	•	•		•		
VALVE POSITION SUPERVISORY SWITCH ALARM	•				•		
PRESSURE OPERATED WATERFLOW SWITCH ALARM	•	•		•			
SYSTEM FAULT	•						•

NOTE:  
THE SEQUENCE OF OPERATIONS ABOVE ADDRESSES ACTIONS AS A RESULT OF THIS PROJECT ONLY (E.G. ALL BUILDING FIRE ALARM FUNCTIONS ARE NOT SHOWN).

KEYPLAN

